

9842L Multi-Conductor - Low Capacitance Computer Cable for EIA RS-485 Application

For more Information
please call

1-800-Belden1



Description:

24 AWG stranded (7x32) TC conductors, polyethylene insulation, twisted pairs, overall Beldfoil® (100% coverage) + TC braid shield (90% coverage), 24 AWG stranded TC drain wire, PVC jacket

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 2 | 24 | 7x32 | TC - Tinned Copper |

Insulation

Insulation Material:

| Insulation Material |
|---------------------|
| PE - Polyethylene |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|------------------------------|--------------|
| 1 | Beldfoil® | Tape | Aluminum Foil-Polyester Tape | 100 |
| 2 | | Braid | TC - Tinned Copper | 90 |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 24 | 7x32 | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Overall Cabling

Overall Nominal Diameter: 0.340 in.

Pair

Pair Color Code Chart:

| Number | Color |
|--------|-----------------------------|
| 1 | White/Blue & Blue/White |
| 2 | White/Orange & Orange/White |

Pair Lay Length & Direction:

| Lay Length (in.) | Twists/ft. (twist/ft) | Direction |
|------------------|-----------------------|---------------|
| 1.000 | 12.000 | Left Hand Lay |

Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +80°C

UL Temperature Rating: 80°C

Bulk Cable Weight: 62 lbs/1000 ft.

Max. Recommended Pulling Tension: 87 lbs.

Min. Bend Radius (Install)/Minor Axis: 3.500 in.

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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|---------------------------|
| NEC/(UL) Specification: | CM |
| CEC/C(UL) Specification: | CM |
| AWM Specification: | UL Style 2919 (30 V 80°C) |
| EU CE Mark: | Yes |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004 |
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |

Plenum/Non-Plenum

| | |
|----------------|-------|
| Plenum (Y/N): | No |
| Plenum Number: | 82842 |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
120

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
12.8

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
23

Nominal Velocity of Propagation:

VP (%)
66

Nominal Delay:

Delay (ns/ft)
1.6

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
24

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.2

Nom. Attenuation:

Attenuation (dB/100 ft.)
0.6 (@ 1 MHz)

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Current
2.1 Amps per conductor @ 25°C

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Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|----------|-------------|--------|-------|--------------------|
| 9842 060100 | 100 FT | 5.800 LB | CHROME | | 2 PR #24 PE SH PVC |
| 9842 0601000 | 1,000 FT | 57.000 LB | CHROME | C | 2 PR #24 PE SH PVC |
| 9842 060500 | 500 FT | 29.500 LB | CHROME | C | 2 PR #24 PE SH PVC |
| 9842 0605000 | 5,000 FT | 270.000 LB | CHROME | | 2 PR #24 PE SH PVC |

Notes:

C = CRATE REEL PUT-UP.

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